



1642 ENTERED

1600

RAW SEQUENCE LISTING

DATE: 04/12/2002

PATENT APPLICATION: US/09/581,651A

TIME: 14:21:03

Input Set : A:\350013-72.txt

Output Set: N:\CRF3\04122002\I581651A.raw

4 <110> APPLICANT: Schor, Seth Laurence
 5 Schor, Ana Maria
 7 <120> TITLE OF INVENTION: POLYPEPTIDES, POLYNUCLEOTIDES AND USES
 8 THEREOF
 10 <130> FILE REFERENCE: 350013-72
 12 <140> CURRENT APPLICATION NUMBER: 09/581,651A
 13 <141> CURRENT FILING DATE: 2000-10-10
 15 <160> NUMBER OF SEQ ID NOS: 15
 17 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 660
 21 <212> TYPE: PRT
 22 <213> ORGANISM: Human
 24 <400> SEQUENCE: 1

RECEIVED
 APR 22 2002
 TECH CENTER 1600/2900

25	Asn	Leu	Val	Ala	Thr	Cys	Leu	Pro	Val	Arg	Ala	Ser	Leu	Pro	His	Arg
26	1				5				10					15		
27	Leu	Asn	Met	Leu	Arg	Gly	Pro	Gly	Pro	Gly	Leu	Leu	Leu	Leu	Ala	Val
28				20					25					30		
29	Gln	Cys	Leu	Gly	Thr	Ala	Val	Pro	Ser	Thr	Gly	Ala	Ser	Lys	Ser	Lys
30			35					40					45			
31	Arg	Gln	Ala	Gln	Gln	Met	Val	Gln	Pro	Gln	Ser	Pro	Val	Ala	Val	Ser
32		50					55				60					
33	Gln	Ser	Lys	Pro	Gly	Cys	Tyr	Asp	Asn	Gly	Lys	His	Tyr	Gln	Ile	Asn
34	65				70				75					80		
35	Gln	Gln	Trp	Glu	Arg	Thr	Tyr	Leu	Gly	Asn	Ala	Leu	Val	Cys	Thr	Cys
36				85					90					95		
37	Tyr	Gly	Gly	Ser	Arg	Gly	Phe	Asn	Cys	Glu	Ser	Lys	Pro	Glu	Ala	Glu
38				100					105					110		
39	Glu	Thr	Cys	Phe	Asp	Lys	Tyr	Thr	Gly	Asn	Thr	Tyr	Arg	Val	Gly	Asp
40			115					120					125			
41	Thr	Tyr	Glu	Arg	Pro	Lys	Asp	Ser	Met	Ile	Trp	Asp	Cys	Thr	Cys	Ile
42		130					135					140				
43	Gly	Ala	Gly	Arg	Gly	Arg	Ile	Ser	Cys	Thr	Ile	Ala	Asn	Arg	Cys	His
44	145				150				155					160		
45	Glu	Gly	Gly	Gln	Ser	Tyr	Lys	Ile	Gly	Asp	Thr	Trp	Arg	Arg	Pro	His
46				165					170					175		
47	Glu	Thr	Gly	Gly	Tyr	Met	Leu	Glu	Cys	Val	Cys	Leu	Gly	Asn	Gly	Lys
48			180					185					190			
49	Gly	Glu	Trp	Thr	Cys	Lys	Pro	Ile	Ala	Glu	Lys	Cys	Phe	Asp	His	Ala
50			195				200					205				
51	Ala	Gly	Thr	Ser	Tyr	Val	Val	Gly	Glu	Thr	Trp	Glu	Lys	Pro	Tyr	Gln
52		210				215					220					
53	Gly	Trp	Met	Met	Val	Asp	Cys	Thr	Cys	Leu	Gly	Glu	Gly	Ser	Gly	Arg

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/581,651A

DATE: 04/12/2002

TIME: 14:21:03

Input Set : A:\350013-72.txt

Output Set: N:\CRF3\04122002\I581651A.raw

54	225			230				235				240				
55	Ile	Thr	Cys	Thr	Ser	Arg	Asn	Arg	Cys	Asn	Asp	Gln	Asp	Thr	Arg	Thr
56				245				250							255	
57	Ser	Tyr	Arg	Ile	Gly	Asp	Thr	Trp	Ser	Lys	Lys	Asp	Asn	Arg	Gly	Asn
58				260				265							270	
59	Leu	Leu	Gln	Cys	Ile	Cys	Thr	Gly	Asn	Gly	Arg	Gly	Glu	Trp	Lys	Cys
60			275					280					285			
61	Glu	Arg	His	Thr	Ser	Val	Gln	Thr	Thr	Ser	Ser	Gly	Ser	Gly	Pro	Phe
62		290					295					300				
63	Thr	Asp	Val	Arg	Ala	Ala	Val	Tyr	Gln	Pro	Gln	Pro	His	Pro	Gln	Pro
64	305				310					315						320
65	Pro	Pro	Tyr	Gly	His	Cys	Val	Thr	Asp	Ser	Gly	Val	Val	Tyr	Ser	Val
66				325				330							335	
67	Gly	Met	Gln	Trp	Leu	Lys	Thr	Gln	Gly	Asn	Lys	Gln	Met	Leu	Cys	Thr
68			340					345					350			
69	Cys	Leu	Gly	Asn	Gly	Val	Ser	Cys	Gln	Glu	Thr	Ala	Val	Thr	Gln	Thr
70			355					360				365				
71	Tyr	Gly	Gly	Asn	Ser	Asn	Gly	Glu	Pro	Cys	Val	Leu	Pro	Phe	Thr	Tyr
72		370					375					380				
73	Asn	Asp	Arg	Thr	Asp	Ser	Thr	Thr	Ser	Asn	Tyr	Glu	Gln	Asp	Gln	Lys
74	385				390					395						400
75	Tyr	Ser	Phe	Cys	Thr	Asp	His	Thr	Val	Leu	Val	Gln	Thr	Arg	Gly	Gly
76				405				410							415	
77	Asn	Ser	Asn	Gly	Ala	Leu	Cys	His	Phe	Pro	Phe	Leu	Tyr	Asn	Asn	His
78			420					425					430			
79	Asn	Tyr	Thr	Asp	Cys	Thr	Ser	Glu	Gly	Arg	Arg	Asp	Asn	Met	Lys	Trp
80			435					440				445				
81	Cys	Gly	Thr	Thr	Gln	Asn	Tyr	Asp	Ala	Asp	Gln	Lys	Phe	Gly	Phe	Cys
82		450					455				460					
83	Pro	Met	Ala	Ala	His	Glu	Glu	Ile	Cys	Thr	Thr	Asn	Glu	Gly	Val	Met
84	465				470					475						480
85	Tyr	Arg	Ile	Gly	Asp	Gln	Trp	Asp	Lys	Gln	His	Asp	Met	Gly	His	Met
86				485				490							495	
87	Met	Arg	Cys	Thr	Cys	Val	Gly	Asn	Gly	Arg	Gly	Glu	Trp	Thr	Cys	Ile
88			500					505					510			
89	Ala	Tyr	Ser	Gln	Leu	Arg	Asp	Gln	Cys	Ile	Val	Asp	Asp	Ile	Thr	Tyr
90			515					520				525				
91	Asn	Val	Asn	Asp	Thr	Phe	His	Lys	Arg	His	Glu	Glu	Gly	His	Met	Leu
92		530					535				540					
93	Asn	Cys	Thr	Cys	Phe	Gly	Gln	Gly	Arg	Gly	Arg	Trp	Lys	Cys	Asp	Pro
94	545				550				555						560	
95	Val	Asp	Gln	Cys	Gln	Asp	Ser	Glu	Thr	Gly	Thr	Phe	Tyr	Gln	Ile	Gly
96				565				570							575	
97	Asp	Ser	Trp	Glu	Lys	Tyr	Val	His	Gly	Val	Arg	Tyr	Gln	Cys	Tyr	Cys
98			580					585					590			
99	Tyr	Gly	Arg	Gly	Ile	Gly	Glu	Trp	His	Cys	Gln	Pro	Leu	Gln	Thr	Tyr
100			595				600					605				
101	Pro	Ser	Ser	Ser	Gly	Pro	Val	Glu	Val	Phe	Ile	Thr	Glu	Thr	Pro	Ser
102		610					615					620				

RAW SEQUENCE LISTING

DATE: 04/12/2002

PATENT APPLICATION: US/09/581,651A

TIME: 14:21:03

Input Set : A:\350013-72.txt

Output Set: N:\CRF3\04122002\I581651A.raw

```

103  Gln Pro Asn Ser His Pro Ile Gln Trp Asn Ala Pro Gln Pro Ser His
104  625                               630                               635                               640
105  Ile Ser Lys Tyr Ile Leu Arg Trp Arg Pro Val Ser Ile Pro Pro Arg
106                               645                               650                               655
107  Asn Leu Gly Tyr
108                               660
110 <210> SEQ ID NO: 2
111 <211> LENGTH: 2147
112 <212> TYPE: DNA
113 <213> ORGANISM: Human
115 <400> SEQUENCE: 2
116  caaacttggt ggcaacttgc ctcccgggtgc gggcggtctct cccccaccgt ctcaacatgc      60
117  ttaggggtcc ggggcccggg ctgctgctgc tggccgtcca gtgcctgggg acagcgggtgc      120
118  cctccacggg agcctcgaag agcaagaggc aggcctcagca aatgggttcag cccaggtccc      180
119  cggtggtctg cagtcaaagc aagcccggtt gttatgacaa tggaaaacac tatcagataa      240
120  atcaacagtg ggagcgggacc tacctaggca atgcgttggg ttgtacttgt tatggaggaa      300
121  gccgaggttt taactgcgag agtaaacctg aagctgaaga gacttgcttt gacaagtaca      360
122  ctgggaacac ttaccgagtg ggtgacactt atgagcgtcc taaagactcc atgatctggg      420
123  actgtacctg catcggggct gggcgaggga gaataagctg taccatcgca aaccgctgcc      480
124  atgaaggggg tcagtcctac aagattgggt acacctggag gagaccacat gagactgggt      540
125  gttacatggt agagtgtgtg tgtcttggtg atggaaaagg agaattggacc tgcaagccca      600
126  tagctgagaa gtgttttgat catgctgctg ggacttccta tgtggtcgga gaaacgtggg      660
127  agaagcccta ccaaggctgg atgatggtag attgtacttg cctgggagaa ggcagcggac      720
128  gcatcacttg cacttctaga aatagatgca acgatcagga cacaaggaca tcctatagaa      780
129  ttggagacac ctggagcaag aaggataatc gaggaaacct gctccagtgc atctgcacag      840
130  gcaacggccg aggagagtgg aagtgtgaga ggcacacctc tgtgcagacc acatcgagcg      900
131  gatctggccc cttcaccgat gttcgtgcag ctgtttacca accgcagcct cccccccagc      960
132  ctctcccta tggccactgt gtcacagaca gtggtgtggt ctactctgtg gggatgcagt      1020
133  ggctgaagac acaaggaaat aagcaaatgc ttgacagtgc cctgggcaac ggagtcagct      1080
134  gccaaagagc agctgtaacc cagacttacg gtggcaactc aaatggagag ccattgtgtc      1140
135  taccattcac ctacaacgac aggacggaca gcacaacttc gaattatgag caggaccaga      1200
136  aatactcttt ctgcacagac cacactgttt tggttcagac tcgaggagga aattccaatg      1260
137  gtgccttggt ccacttcccc ttctataaca acaaccacaa ttactactgat tgcacttctg      1320
138  agggcagaag agacaacatg aagtgggtgt ggaccacaca gaactatgat gccgaccaga      1380
139  agtttggggt ctgccccatg gctgcccacg aggaaatctg cacaaccaat gaaggggtca      1440
140  tgtaccgcat tggagatcag tgggataagc agcatgacat gggtcacatg atgaggtgca      1500
141  cgtgtgttgg gaatggtcgt ggggaatgga catgcattgc ctactcgcag cttcgagatc      1560
142  agtgcattgt tgatgacatc acttacaatg tgaacgacac attccacaag cgtcatgaag      1620
143  aggggcacat gctgaactgt acatgcttcg gtcagggtcg gggcaggtgg aagtgtgatc      1680
144  ccgtcgacca atgccaggat tcagagactg ggacgtttta tcaaattgga gattcatggg      1740
145  agaagtatgt gcatggtgtc agataccagt gctactgcta tggccgtggc attggggagt      1800
146  ggcattgcca acctttacag acctatccaa gctcaagtgg tcctgtcgaa gtatttatca      1860
147  ctgagactcc gagtcagccc aactcccacc ccacccagtg gaatgcacca cagccatctc      1920
148  acatttccaa gtacattctc aggtggagac ctgtgagtat cccaccaga aaccttggat      1980
149  actgagtctc ctaattctat caattctgat ggtttctttt ttccccagct tttagccaa      2040
150  caactctgat taactattcc tatagcattt actatatttg tttagtgaac aaacaatatg      2100
151  tggteaatta aattgacttg tagactgaaa aaaaaaaaaa aaaaaaa      2147
153 <210> SEQ ID NO: 3
154 <211> LENGTH: 20

```

RAW SEQUENCE LISTING

DATE: 04/12/2002

PATENT APPLICATION: US/09/581,651A

TIME: 14:21:03

Input Set : A:\350013-72.txt

Output Set: N:\CRF3\04122002\I581651A.raw

```

155 <212> TYPE: PRT
156 <213> ORGANISM: Human
158 <400> SEQUENCE: 3
159 Ile Ser Lys Tyr Ile Leu Arg Trp Arg Pro Val Ser Ile Pro Pro Arg
160 1 5 10 15
161 Asn Leu Gly Tyr
162 20
164 <210> SEQ ID NO: 4
165 <211> LENGTH: 21
166 <212> TYPE: PRT
167 <213> ORGANISM: Human
169 <400> SEQUENCE: 4
170 Gln Gln Trp Glu Arg Thr Tyr Leu Gly Asn Ala Leu Val Cys Thr Cys
171 1 5 10 15
172 Tyr Gly Gly Ser Arg
173 20
175 <210> SEQ ID NO: 5
176 <211> LENGTH: 23
177 <212> TYPE: PRT
178 <213> ORGANISM: Human
180 <400> SEQUENCE: 5
181 Pro Cys Val Leu Pro Phe Thr Tyr Asn Asp Arg Thr Asp Ser Thr Thr
182 1 5 10 15
183 Ser Asn Tyr Glu Gln Asp Gln
184 20
186 <210> SEQ ID NO: 6
187 <211> LENGTH: 20
188 <212> TYPE: PRT
189 <213> ORGANISM: Human
191 <400> SEQUENCE: 6
192 Thr Asp His Thr Val Leu Val Gln Thr Arg Gly Gly Asn Ser Asn Gly
193 1 5 10 15
194 Ala Leu Cys His
195 20
197 <210> SEQ ID NO: 7
198 <211> LENGTH: 21
199 <212> TYPE: PRT
200 <213> ORGANISM: Human
202 <400> SEQUENCE: 7
203 Val Gly Asn Gly Arg Gly Glu Trp Thr Cys Ile Ala Tyr Ser Gln Leu
204 1 5 10 15
205 Arg Asp Gln Cys Ile
206 20
208 <210> SEQ ID NO: 8
209 <211> LENGTH: 21
210 <212> TYPE: PRT
211 <213> ORGANISM: Human
213 <400> SEQUENCE: 8
214 Gln Gln Trp Glu Arg Thr Tyr Leu Gly Asn Val Leu Val Cys Thr Cys

```

RAW SEQUENCE LISTING

DATE: 04/12/2002

PATENT APPLICATION: US/09/581,651A

TIME: 14:21:03

Input Set : A:\350013-72.txt

Output Set: N:\CRF3\04122002\I581651A.raw

```

215      1              5              10              15
216 Tyr Gly Gly Ser Arg
217              20
219 <210> SEQ ID NO: 9
220 <211> LENGTH: 39
221 <212> TYPE: PRT
222 <213> ORGANISM: Human
224 <400> SEQUENCE: 9
225 Glu Pro Cys Val Leu Pro Phe Thr Tyr Asn Gly Arg Thr Phe Tyr Ser
226      1              5              10              15
227 Cys Thr Thr Glu Gly Arg Gln Asp Gly His Leu Trp Cys Ser Thr Thr
228              20              25              30
229 Ser Asn Tyr Glu Gln Asp Gln
230              35
232 <210> SEQ ID NO: 10
233 <211> LENGTH: 21
234 <212> TYPE: PRT
235 <213> ORGANISM: Human
237 <400> SEQUENCE: 10
238 Cys Thr Asp His Thr Val Leu Val Gln Thr Gln Gly Gly Asn Ser Asn
239      1              5              10              15
240 Gly Ala Leu Cys His
241              20
243 <210> SEQ ID NO: 11
244 <211> LENGTH: 21
245 <212> TYPE: PRT
246 <213> ORGANISM: Human
248 <400> SEQUENCE: 11
249 Val Gly Asn Gly Arg Gly Glu Trp Thr Cys Tyr Ala Tyr Ser Gln Leu
250      1              5              10              15
251 Arg Asp Gln Cys Ile
252              20
254 <210> SEQ ID NO: 12
255 <211> LENGTH: 20
256 <212> TYPE: PRT
257 <213> ORGANISM: Human
259 <400> SEQUENCE: 12
260 Ile Ser Lys Tyr Ile Leu Arg Trp Arg Pro Lys Asn Ser Val Gly Arg
261      1              5              10              15
262 Trp Lys Glu Ala
263              20
265 <210> SEQ ID NO: 13
266 <211> LENGTH: 11
267 <212> TYPE: PRT
268 <213> ORGANISM: Human
270 <400> SEQUENCE: 13
271 Thr Ala Ser Gly Val Ala Glu Thr Thr Asn Cys
272      1              5              10
274 <210> SEQ ID NO: 14

```

VERIFICATION SUMMARY

DATE: 04/12/2002

PATENT APPLICATION: US/09/581,651A

TIME: 14:21:04

Input Set : A:\350013-72.txt

Output Set: N:\CRF3\04122002\I581651A.raw